NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NC/QC/PD/MW-13/2017-18/WD-PCC2

Date: 14-03-2018

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for M-10 grade concrete .

{Project*: Formation of internal roads Levelling & Lowering of Mallasandra Waste disposal site in Sy No.33 in Ward No.13.}

Ref.: Material testing/QC/17-18,

Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.

Name of the Agency/Contractor*: Technical Manager, KRIDL.

1. COARSE AGGRGATES Table - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	98.35	85-100	95 – 100
20mm	51.90	0 -20	30- 70
10mm	26.70	0 -5	10- 35
4.75mm	4.25	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone –III	
04.75	97.55	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	89.10	60-95	75-100	85-100	
01.18	74.95	30-70	55-90	75-100	
600. mic	46.80	15-34	35-59	60-79	
300.mic	23.60	5-20	8-30	12-40	
150.mic	6.90	0-10	0-10	0-10	

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NC/QC/PD/MW-13/2017-18/WD-FA1

Date: 17-03-2018

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Formation of internal roads Levelling & Lowering of Mallasandra Waste disposal site in Sy No.33 in Ward No.13.}
Ref.: Material testing/QC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**99.10**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**85.65**	60-95	75-100	85-100	
01.18	**67.20**	30-70	55-90	75-100	
600. mic	**40.85**	15.34	35-59	60-79	
300.mic	**19.30**	5-20	8-30	12-40	
150.mic	**7.95**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**16.70 %**	-----
2	Silt Content	----	**0.76 %**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

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NC/QC/PD/MW-13/2017-18/WD-CA1 Date: 17-03-2018

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Formation of internal roads Levelling & Lowering of Mallasandra Waste disposal site in Sy No.33 in Ward No.13.}
Ref.: Material testing/QC/17-18,
Report Required for: Assistant Executive Engineer,
Project Division, Dasarahalli Zone,
BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	96.35	85-100	90 - 100
10 mm	52.80	0 - 20	25 - 55
4.75 mm	3.70	0 - 5	0 - 10

TABLE 1. 2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	22.82 %	Not to exceed 25 %
2.	Crushing value	27.36 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/QC/PD/MW-13/2017-18/WD-S1 Date: 17-03-2018

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10 mm **TMT Steel.**
{Project*: Formation of internal roads Levelling & Lowering of Mallasandra Waste disposal site in Sy No.33 in Ward No.13.}
Ref.: Material testing/QC/17-18,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: Technical Manager, KRIDL.

TABLE – 1

SL No	Details	For 10 mm	
		Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**10.0 mm**	10.0 mm
02	Observed Wt/m Length **Kg/m**	**0.626**	0.567
03	Proof stress/Yield stress, fy , **N/mm^2**	**543.0**	500.0
04	Bend/ Re bend Test	**Ok**	---
05	Percentage of Elongation, %	**21.80**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**644.0**	545.0

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